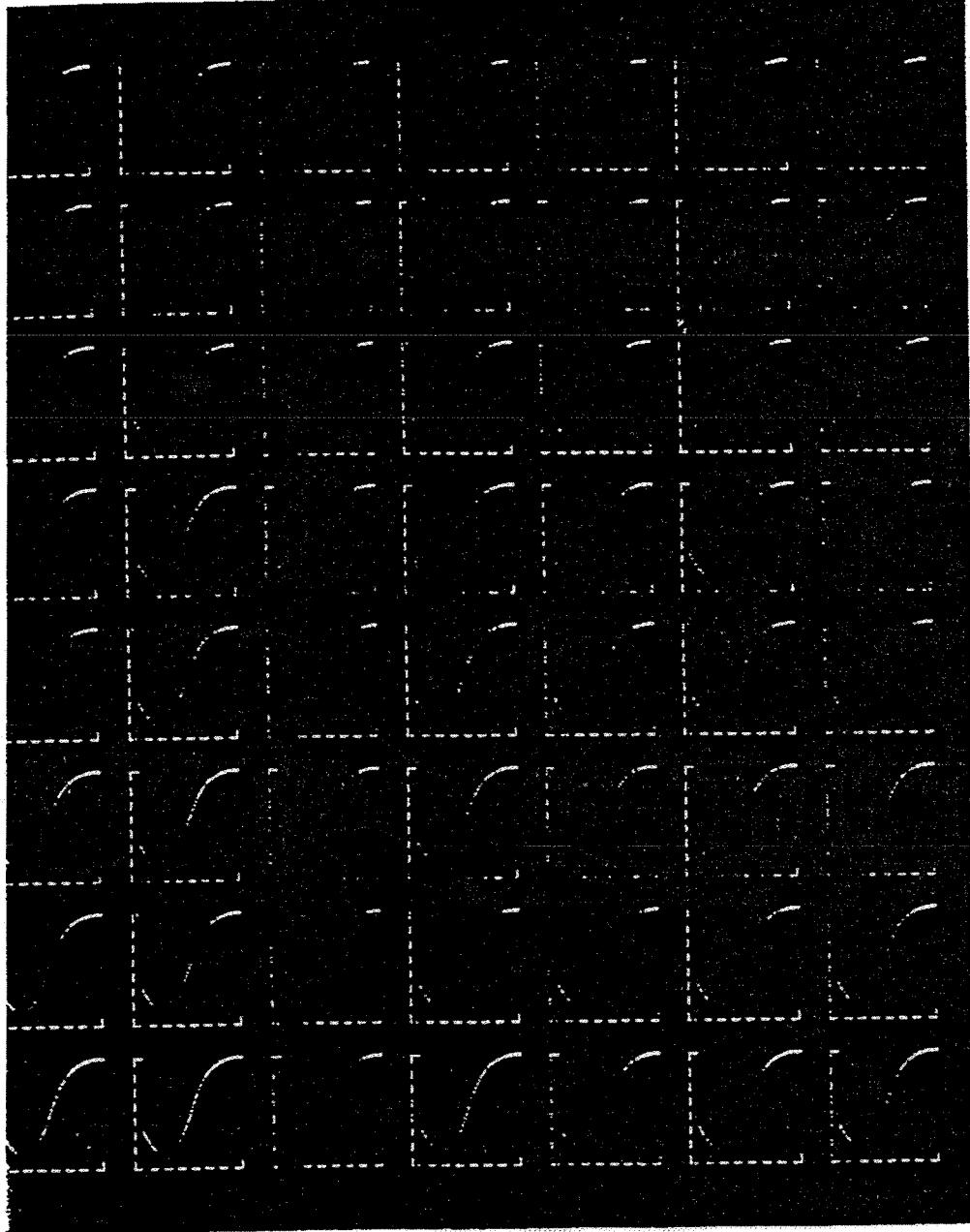


## GeneAmp PCR System 9600



ATTORNEY'S EYES ONLY  
RESTRICTED

**PERKIN ELMER CETUS**

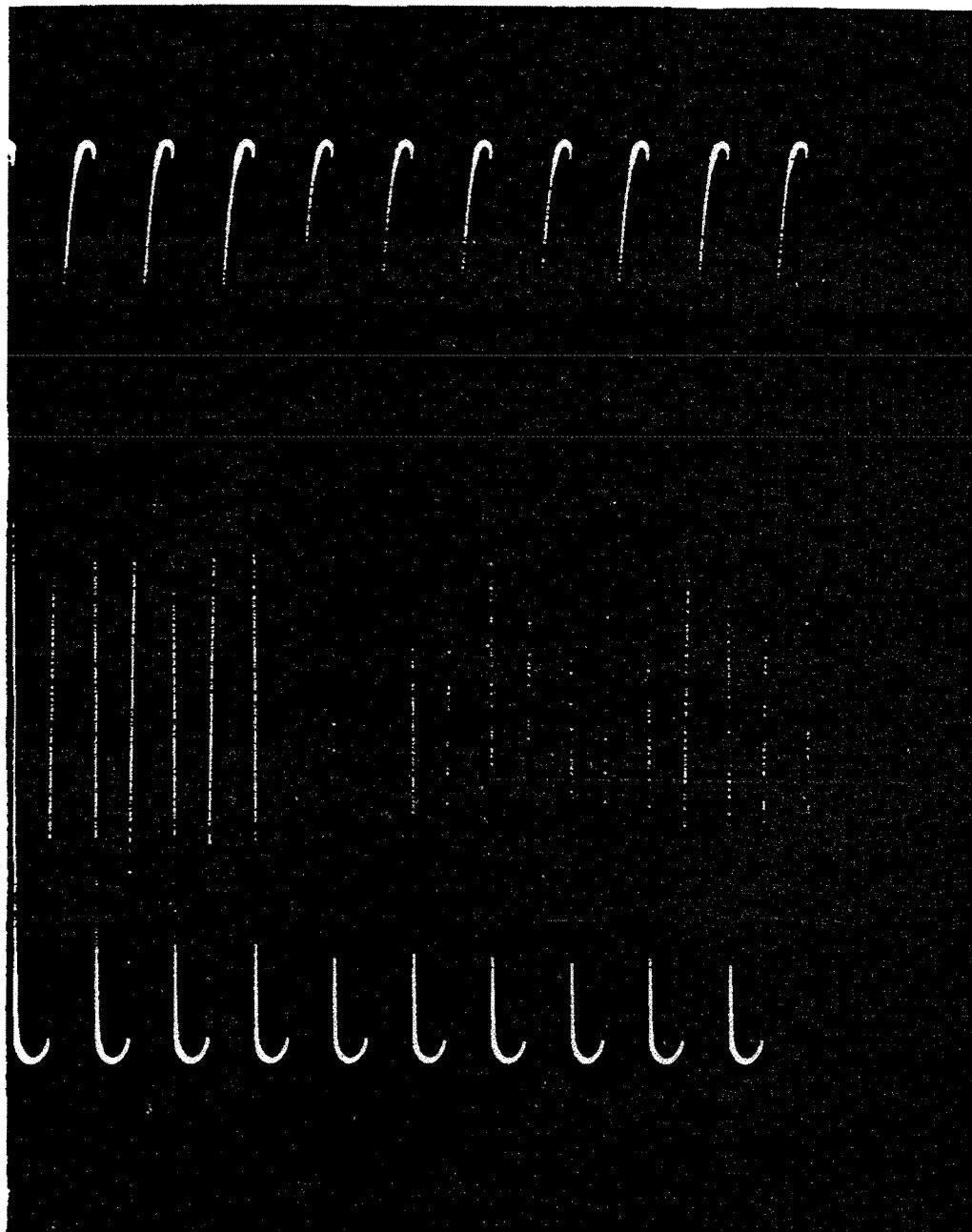
RMS 71095

EXHIBIT D

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RMS 71096

## DNA Thermal Cycler 480



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**PERKIN ELMER CETUS**

RMS 71097

EXHIBIT E

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RMS 71098

Kodak Memo

January 29, 1988

To:

Ms. S. Aumiller                    Mr. J.G. Knowles                    Dr. P.N. Schnipelsky  
Dr. W.G. Gerber                    Dr. P.A. Law                    Dr. J.C. Sninsky  
Mr. J.C. Junker

From: Fred Marcellus, Biological Diagnostics, B-800L, KP (716-722-6537)  
Subject: Milestones, Expenditures, & Personnel Report for YE 1987

This document represents the first issue of the Milestones, Expenditures and Personnel report. The format for this report was reviewed at the RDMC meeting in December.

The report summarizes the information available at this time. It was decided to issue the report even though all data was not complete. It is expected that future issues will contain more complete information.

MILESTONE ISSUES

Current Products

- \* hCG -
- \* Herpes -
- \* Strep - A switch to a sandwich ELISA assay has been made due to filter variability problems with the agglutination format. The Biochemed immunopure rabbit polyclonal remains as Ab of choice for the ELISA format. ITT completed 1/4/88 for ELISA with a final diagnostic efficiency of 97-98% (N=1005 and prevalence=30-35%). Scheduling of ETT and FDA submission is in progress. Current rough estimates are provided.
- \* Gonorrhea -
- \* Chlamydia -
- \* Rapid Aids -

Future Products

- \* Cancer -
- \* HPV -
- \* Diabetes -
- \* HLA Typing -
- \* HIV (Aids)/DNA - Feasibility with model system shown; patient testing to begin.
- \* Forensics - Currently transferring Cetus technology to Kodak.
- \* Ektamizer -

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1165.1  
JET/JS

RMS 71099

R&D EXPENDITURE SUMMARY

	1987 YE Forecast	% Actual	1988 YE Forecast	% Estimated	Var
Kodak & Cetus	3448		>		
Current Products	3984		> 13870	13870	
Future Products	3654		>		
Basic Technology	620		1080	1080	
LRPD, CPI, HRI	2093		0	0	
No Current Activity	<u>12200</u>	<u>13785</u>	<u>14950</u>	<u>14950</u>	<u>13%</u>

PERSONNEL

(Kodak only)	Current Month Actual	1988 YE Forecast	Estimated
Current Products	11.2	9.8	9.8
Future Products	4.3	6.0	6.0
Basic Technology	<u>13.8</u>	<u>14.0</u>	<u>14.0</u>
	29.3	29.8	29.8

Note: If you need more detailed information than is provided in this report, please contact the program leader directly.

316642  
CETUS

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RMS 71100

## CETUS - MILESTONE REVIEW of R&amp;D PROGRAMS

1/29/88

## Current Products

	1988																	
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Immunoassays																		
HCG	INT	====	EXT	FDA	=====	AVL												
Herpes	=====	=====	=====	=====	ANT/ABS/FMT	INT	====	EXT/FDA	=====	=====	=====	AVL						
Strep	ANT	ABS	FMT	INT	=====	=====	EXT	FDA	=====	=====	=====	AVL						
Syphilis	(proposed schedule)	=====	=====	=====	=====	=====	INT	====	EXT/FDA	=====	=====	AVL						
Chlamydia	====	ANT	=====	=====	=====	=====	ARS/FMT	INT	EXT/FDA	=====	=====	AVL						
Rapid AIDS	(proposed schedule)	=====	=====	=====	=====	=====	INT	=====	=====	=====	=====	EXIT	FDA	=====	=====	=====	=====	=====

INT-Identify Antigens  
 ABS-Identify Antibodies  
 FMT-Dev Initial Test Forma  
 INT-In House Tests  
 EXIT-External Clinical Trial  
 (For Marketing Clearance)  
 FDA-FDA Submission  
 AVL-Availability

===== Indicates that  
 Milestone is behind  
 schedule this account

## Future Products

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
DNA Based Tests																		
Cancer																		
HPV (Cervical Cancer)																		
Diabetes (IDDM)																		
HLA Typing																		
HIV (Aids)/DNA	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	FSB					
Forensics	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	FSB					
Ektameter																		

MKT-Market Opportunity  
 FSB-Feasibility (Scientific/  
 Commercial)  
 ADD-Add to Business Plan

## Basic Technology

DNA Probes & Infectious Diseases	(need real schedule)
Disposables & Evaluation	I
Reagent Dev & Reagent Integration	I

## Quarterly Reviews Scheduled as Follows:

Mar	Jun	Sep	Dec
I		I	
I		I	
	I		I

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CETUS

TOTAL

TOTAL EXPENDITURES  
EK/CETUS - R & D PROGRAMS

PROGRAM NUMBERS CETUS	KODAK	1986 ACT	1987 ACT	1988 EST	LIFE-TO DATE	PROGRAM DESCRIPTION	1988 YE FCST AOP
ID010	6515	949	864	7	1820	*** CURRENT PRODUCTS *** HCG	7620
ID110	6426	670	484	220	1374	HERPES	7
ID111	6427	943	677	221	1841	STREP	220
ID119	6428	409	714	260	1383	GONORRHEA	221
ID116	6429	857	586	211	1634	CHLAMYDIA	260
ID112	6517-9	0	123	425	548	RAPID HIV ANTIBODY	211
		3828	3448	8964	16240	TOTAL	425
							8964
						*** FUTURE PRODUCTS ***	
MAC16		190	190	0	380	CANCER	0
MAC17	2090	0	1	200	201	HPV (CERVICAL CANCER)	200
NAH16		320	282	0	602	DIABETES (IDDM)	0
NAH19		1473	1485	0	2960	HLA TYPING	0
NAI14	2087	875	2026	500	3401	HIV (AIDS)/DNA	500
NAH13	2089	0	0	447	447	FORENSICS	—
	5720	0	0	725	725	EXTRAMIZER	447
		2860	3984	1872	8716	TOTAL	725
							1872
						*** BASIC TECHNOLOGY ***	
NAI12/CNA	6119	0	392	271	663	INFECTIOUS DISEASES (OTHER)	271
	6205	488	1031	874	2393	DNA PROBES/KODAK	874
	6206	871	1120	331	2322	DISPOSABLES (SURECELL KITS)	331
	6208	53	268	224	545	EVALUATION (INT & EIT TESTING)	224
	6209	502	335	734	1571	REAGENT DEVELOPMENT	734
	6210-14	1	501	500	1002	REAGENT INTEGRATION	500
		241	7	100	348	MANUFACTURABILITY	100
		2158	3654	3034	8844	TOTAL	3034
						*** NO CURRENT ACTIVITY ***	
IDC10		785	1089	0	1874	BREAST CANCER	0
IDC16		122	7	0	129	ONCOGENE RAS	0
NAI10/11		308	3	0	311	SHIGELLA/SALMONELLA	0
ID011	6508	245	123	0	368	LH	0
	6207	649	66	0	715	INSTRUMENTATION (FOR TEST SYSTEM EVAL)	0
	4447	100	335	0	435	ANALYTICAL CHARACTERIZATION	0
	5413	29	99	0	128	IMMOBILIZED ANTIBODIES	0
	6105	87	371	0	458	POLYMERS	0
		2323	2093	0	4418	TOTAL	0
		11169	13179	13870	38218	TOTAL - ALL PROGRAMS	13870
		0	143	-50	93	LRPD	-50
		0	290	850	1140	CPI	850
		0	140	280	420	HRI	280
		11169	13752	14950	39871	TOTAL ALL EXPENDITURES	14950

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CETUS

KODAK

**KODAK EXPENDITURES**  
EK/CETUS - R & D PROGRAMS

PROG NO KODAK	1986 ACT	1987 ACT	1988 EST	LIFE-TO DATE	PROGRAM DESCRIPTION	1988 YE FCST AOP
*** CURRENT PRODUCTS ***						
6515	718	730	7	1453	HCG	7
6426		68	220	288	HERPES	220
6427	502	204	221	927	STREP	221
6428		24	260	284	GONORRHEA	260
6429	507	249	211	967	CHLAMYDIA	211
6517-9	0	10	423	435	RAPID HIV ANTIBODY	425
	1727	1285	1344	4356	TOTAL	1344
*** FUTURE PRODUCTS ***						
2090			0	200	CANCER	
			200	200	HPV (CERVICAL CANCER)	200
			0	0	DIABETES (IDOMI)	
			0	0	HLA TYPING	
2087			500	500	HIV (AIDS)/DNA	500
2089			447	447	FORENSICS	447
5720			725	725	EXTANIZER	725
	0	0	1872	1872	TOTAL	1872
*** BASIC TECHNOLOGY ***						
6119		392	271	663	INFECTIOUS DISEASES (OTHER)	271
6205	339	1029	874	2242	DNA PROBES/KODAK	874
6206	871	1120	331	2322	DISPOSABLES (SURECELL KITS)	331
6208	53	268	224	545	EVALUATION (INT & EXIT TESTING)	224
6209	502	335	734	1571	REAGENT DEVELOPMENT	734
6210-14	1	501	500	1002	REAGENT INTEGRATION	500
	241	7	100	348	MANUFACTURABILITY	100
	2007	3652	3034	8693	TOTAL	3034
*** NO CURRENT ACTIVITY ***						
		0	0	0	BREAST CANCER	0
		0	0	0	ONCOGENE RAS	0
		0	0	0	SHIGELLA/SALMONELLA	0
6508	80	87	0	167	LH	0
6207	649	66	0	715	INSTRUMENTATION (FOR TEST SYSTEM EVAL)	0
4447	100	333	0	433	ANALYTICAL CHARACTERIZATION	0
5413	29	99	0	128	IMMOBILIZED ANTIBODIES	0
6105	87	371	0	458	POLYMERS	0
	945	958	0	1903	TOTAL	0
4679	5893	6250	16824		TOTAL - ALL PROGRAMS	6250
			0	LRPD		
	290	850	1140	CPI		850
			0	HRI		
4679	6185	7100	17984		TOTAL ALL EXPENDITURES	7100

016645  
CETUS

CETUS

**CETUS EXPENDITURES**  
EX/CETUS - R & D PROGRAMS

PROG NO CETUS	1986 ACT	1987 ACT	1988 EST	LIFE-TO DATE	PROGRAM DESCRIPTION	1988 YE FCST	AOP
				7620	7620		
1D010	231	134		365	*** CURRENT PRODUCTS *** hCG	7620	
1D110	670	416		1086	HERPES		
1D111	441	473		914	STREP		
1D119	409	690		1099	GONORHEA		
1D116	350	337		687	CHLAMYDIA		
1D112		113		113	RAPID HIV ANTIBODY		
	2101	2163	7620	11884	TOTAL	7620	
					*** FUTURE PRODUCTS ***		
NAC16	190	190		380	CANCER		
NAC17		1		1	HPV (CERVICAL CANCER)		
NAH16	320	282		602	DIABETES (IDDM)		
NAH19	1475	1485		2960	HLA TYPING		
NAH14	875	2026		2901	HIV (AIDS)/DNA		
NAH13		0		0	FORENSICS		
				0	EKTAMIZER		
	2860	3984	0	6844	TOTAL	0	
					*** BASIC TECHNOLOGY ***		
NAH12/DNA	149	2		151	INFECTIOUS DISEASES (OTHER)	0	
				0	DNA PROBES/KODAK	0	
				0	DISPOSABLES (SURECELL KITS)	0	
				0	EVALUATION (IMT & EIT TESTING)	0	
				0	REAGENT DEVELOPMENT	0	
				0	REAGENT INTEGRATION	0	
				0	MANUFACTURABILITY	0	
	149	2	0	151	TOTAL	0	
					*** NO CURRENT ACTIVITY ***		
1DC10	785	1089		1874	BREAST CANCER	0	
1DC16	122	7		129	ONCOGENE RAS	0	
NAH10/11	308	3		311	SHIGELLA/SALMONELLA	0	
10011	165	36		201	LM	0	
				0	INSTRUMENTATION (FOR TEST SYSTEM EVAL)	0	
				0	ANALYTICAL CHARACTERIZATION	0	
				0	IMMOBILIZED ANTIBODIES	0	
				0	POLYMERS	0	
	1380	1135	0	2515	TOTAL	0	
	6490	7284	7620	21394	TOTAL - ALL PROGRAMS	7620	
		143	-50	93	LRPD	-50	
			0	0	CPI	0	
		140	280	420	HRI	280	
	6490	7367	7850	21907	TOTAL ALL EXPENDITURES	7850	

016646  
CETUS



Report Date: 10/26/2006																	
Ref	File #	First Name	Last Name	Address	City	State	Zip	Phone	Fax								
100-#Bureaucracy	42						73										
100-#Cannibals	43							25									
100-#Chemists	44								100								
100-#Cheesemakers	45																
100-#Doctors	46																
100-#Farmers	47								100								
100-#Fathers	48																
100-#Fools	49																
100-#Gardeners	50																
100-#Ghosts	51																
100-#Husbands	52																
100-#Lovers	53																
100-#Maidens	54																
100-#Mechanics	55																
100-#Monks	56																
100-#Nurses	57																
100-#Oblivious	58																
100-#Officers	59																
100-#Politicians	60																
100-#Policemen	61																
100-#Priests	62																
100-#Pushovers	63																
100-#Quacks	64																
100-#Robbers	65																
100-#Sailors	66						100										
100-#Saints	67																
100-#Schemers	68																
100-#Sorcerers	69																
100-#Sorrows	70																
100-#Spies	71																
100-#Squires	72																
100-#Teachers	73																
100-#Terrorists	74																
100-#Thieves	75																
100-#Witches	76																
100-#Wizards	77																
100-#Wives	78																
100-#Worshippers	79																
100-#Wrestlers	80																
100-#Xenophobes	81																
100-#Yogis	82																
100-#Zoologists	83																
100-#Zygotes	84																
100-#Zygotes	85																
100-#Zygotes	86																
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100-#Zygotes	97																
100-#Zygotes	98																
100-#Zygotes	99																
100-#Zygotes	100																
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Government Points	0	1.25	1.5	1.75	1.8	1.85	1	2.25	2.75	0	1.25	0.75	0.5	0	Total		
Current Production	0.75	Future Points	0.75													Basic Technology	14.125
Other Costs Filled																	
Total Costs Filled																	

016648  
CETUS



EXHIBIT G

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RMS 71108

Kodak Memo

-0 23 2000

August 19, 1988

JSP

To: Ms. S. Aumiller                    Dr. P.A. Law                    Dr. P.N. Schnipelsky  
           Dr. J.B. Findlay                Dr. J.S. Price                Dr. J.J. Sninsky  
           Dr. W.G. Gerber                 Mr. H.C. Renton              Mr. C. Yee  
           Mr. J.C. Junker                 Ms. G.C. Rodgers            Mr. J.R. Zeman  
           Mr. J.G. Knowles

From: Fred Marcellus, Biological Diagnostics, B-800L, KP (716-722-6537)  
 Subject: Kodak/Cetus Milestone Report for June 1988

Following is the Kodak/Cetus Milestone Report information through June of 1988. The report summarizes the information available at this time. The report is issued on a monthly basis.

#### MILESTONE ISSUES

##### Current Products

- \* hCG (Smith-Lewis/Shih) - EK: Evaluating buffer placement alternatives (equipment & location), contamination prevention templates, automatic inspection capability and redesign of pre-filter.
- \* Herpes (Cummins/Madsen) - EK: External trade test in progress. These tests will go through the month of August in order to obtain a significant number of patient samples. Implementation meetings complete with both marketing and manufacturing. 510K information is being finalized and should be in place for final external site data.
- Cetus: Four lots of HSV-1 and HSV-2 antigens, for use as positive control material, have been successfully inactivated and evaluated for sensitivity. A second production run of anti-HSV MAb 283-2A1 and anti-CK MAb are being scheduled by Norman Jung.
- \* Strep (Snyder) - EK: Production has begun.
- \* Gonorrhea (Gilbert/Mauck) - Cetus: Redevelopment of MAb purification procedures is expected to be completed in August, with internal trials commencing at that time. Timing is dependent on ascites availability from manufacturing. Prior to external trials, manufacturing-level ascites lots need to be available and cross-over of purification completed.
- \* Chlamydia (Mauck/Gilbert) - EK: The 510K was submitted on 7/11. Whole kit keeping will be initiated in July.
- \* Rapid Aids (Shih/Smith-Lewis) - EK: The main format will focus on a dilution/dispense device rather than dilution in each well. Reproducibility of Ag lots & Ag-beads is still precluding further optimization. Keeping of alternative conjugates has begun. Experiments on bead treatments are underway to make the negative and sample well beads similar for background (decrease false positive risk).
- Cetus: Seven lots of CPI antigen were analyzed by SDS-PAGE and Western blot methods. Method of Ag-bead analysis is under development.

Future Products

- \* Cancer (Kawasaki) - no product defined
- \* HPV (Manos/Findlay) - Cetus: A PCR research assay for the detection of HPV sequences in clinical samples has been developed. Both generic and type specific primers and probes are being examined. The assay has been tested with limited clinical samples (cervical/vulvar swabs). A timeline for the development of an assay for use in a reference laboratory setting is being finalized.
- \* HLA Typing/Diabettes (Erlich) - no product defined
- \* HIV (Aids)/DNA (Kwok/Burdick) - Cetus: The HIV-PCR test was officially offered on July 6, 1988 through two California reference laboratories: Specialty Laboratories, Inc. (SLI) in Santa Monica, and Pathology Institute (PI) in Berkeley.
- \* Forensics (Higuchi/Wu) - EK: Evaluate the capture efficiencies of ASO-beads made by different procedures.
- PCR Instrument (Hinckley) - no input
- \* Endometriosis (Fenton) - EK: no input
- \* Periodontal (Snyder) - EK: Bg PAb's compatible with sandwich ELISA format as per Strep assay. A complete set of PAb's and MAb's for Bg, Bi and Aa as well as a complete panel of specific and nonspecific organisms for full prototype development expected in 2-3 weeks. Option agreement with Buffalo group finalized.

PERSONNEL SUMMARY

	Kodak Labor Period 6 Actual Hours	Cetus Labor May Actual Hours
Current Products	1494	1462
Future Products	802	3909
Core Development	2255	0
Misc/Limited Activity	<u>0</u>	<u>0</u>
	4351	5371

R&D EXPENDITURE SUMMARY

Kodak & Cetus (K\$)	May/June 1988 Forecast	Actual	% Var	1988 YE Forecast	Estimated	% Var
Current Products	1725	1450	-15.9%	3553	3553	
Future Products	3570	2887	-19.1%	7283	7283	
Core Development	1400	1355	-3.2%	3034	3034	
LRPD, CPI, HRI	507	332	-34.5%	1080	1080	
Misc/Limited Activity	<u>0</u>	<u>23</u>		<u>0</u>	<u>0</u>	
	7202	6047	-16.0%	14950	14950	

Note: If you need more detailed information than is provided in this report, please contact the program leader directly.

The Milestone Issues, Personnel Summary and Milestone Schedule are distributed to the following as a separate document:

Dr. B.A. Burdick	Dr. R.G. Higuchi	Dr. J.C. Mauck
Dr. T.J. Cummins	Mr. C.C. Hinckley	Ms. L.J. Scheuerman
Dr. H.A. Erlich	Dr. E.S. Kawasaki	Ms. Y. Shih
Dr. S.S. Fenton	Ms. S.Y. Kwok	Dr. M.J. Smith-Lewis
Dr. H. Fisher	Dr. R.D. Madsen	Dr. B.A. Snyder
Dr. J.H. Gilbert	Dr. M.M. Manos	Dr. A.L. Wu

## EK/CETUS - MILESTONE REVIEW of R&amp;D PROGRAMS

8/19/88

Current Products	1987	1988	1989
Immunoassays (AOP)	Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar		
hCG	(12/87) FDA ===== AVL		
Herpes	(4/88) ===== ANT/ABS/FMT ===== INT ===== EXT FDA ===== AVL (1)		
Strep	(10/88) ABS FMT INT ===== EXT/FDA===== AVL		
Gonorrhea	(4/88) ===== FMT ===== INT ===== EXT ===== FDA		
Chlamydia	(4/88) ===== ABS/FMT INT ===== EXT FDA ===== AVL		
Rapid Aids	(4/88) ===== ABS FMT INT =====		

ANT-Identify Antigens  
 ABS-Identify Antibodies  
 FMT-Dev Initial Test Format  
 INT-In House Tests  
 EXT-External Clinical Trials  
 (For Marketing Claims)  
 FDA-FDA Submission  
 AVL-Availability

\*\*\*\*\* Indicates that  
Milestone is behind  
schedule this amount

Future Products	1988	1989
	Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar	
DNA Based Tests		
Cancer		
HPV (Cervical Cancer)		
Diabetes (IDOM)		
HLA Typing		
HIV (Aids)/DNA	===== FSB	
Forensics	===== FSB	
PCR Instrument	=====	
Endometriosis		FSB
Periodontal-Bg	===== MKT ===== FSB	
-Aa	===== MKT ===== FSB	
-Bi	===== MKT ===== FSB	

MKT-Market Opportunity  
 FSB-Feasibility (Scientific &  
 Commercial)  
 ADD-Add to Business Plan

Basic Technology	Quarterly Reviews Scheduled as Follows:
	Mar      Jun      Sep      Dec
DNA Probes & Infectious (need real schedule)	X            X
Disposables & Evaluation	X            X
Reagent Dev & Reagent Integration	X            X

(1) Herpes Availability delayed due to lack of manufacturing capacity

TOTAL EX/CETUS - R & D PROGRAMS CY 88 - thru period 6/June				TOTAL EXPENDITURES			
PROGRAM NUMBER CETUS	PRIORITY KODAK	YEARS	1988 EST TOTAL	PROGRAM DESCRIPTION	—1988 YTD—		1988 YE FCST ADP
					FCST	ACT	
*** CURRENT PRODUCTS ***							
ID010	6515	1813	0	HCG	3	99	7
ID110	6426	1154	502	HERPES	243	194	502
ID111	6427	1620	221	STREP	102	126	221
ID119	6428	1123	1200	GONORRHEA	590	417	1200
ID116	6429	1443	446	CHLAMYDIA	215	295	446
ID112	6519	123	1177	RAPID HIV ANTIBODY	572	319	1177
		7276	3553	TOTAL	1725	1450	3553
*** FUTURE PRODUCTS ***							
NAC16		380	752	CANCER	376	204	752
NAC17	2090	1	952	HPV (CERVICAL CANCER)	468	192	952
NAH16		602	564	DIABETES (IDDM)	282	287	564
NAH19		2960	564	HLA TYPING	282	573	564
NAI14	2087	2901	2357	HIV (AIDS)/DNA	1159	1147	2357
NAH13	2089	0	1369	FORENSICS	667	243	1369
	5720	0	725	PCR INSTRUMENT	335	241	725
		6844	7283	TOTAL	1570	2887	7283
*** CORE DEVELOPMENT ***							
NAI12/DNA	6119	392	271	INFECTIOUS DISEASES (OTHER)	125	1	271
	6205	1519	874	DNA PROBES/KODAK	403	608	874
	6206	1991	331	DISPOSABLES (SURECELL KITS)	153	158	331
	6208	321	224	EVALUATION (INT & EXT TESTING)	103	76	224
	6209	837	734	REAGENT DEVELOPMENT	339	512	734
	6210-4	502	500	REAGENT INTEGRATION	231	0	500
	248	100	348	MANUFACTURABILITY	46	0	100
		5810	3034	TOTAL	1400	1355	3034
*** MISC/LIMITED ACTIVITY ***							
IDC10		1874	0	BREAST CANCER	0	18	0
IDC16		129	0	ONCOGENE RAS	0	0	0
NAI10/11		311	0	SHIGELLA/SALMONELLA	0	0	0
ID011	6508	368	0	LH	0	4	0
	6207	715	0	INSTRUMENTATION (FOR TEST SYSTEM EVAL)	0	1	0
	4447	435	0	ANALYTICAL CHARACTERIZATION	0	0	0
	5413	128	0	IMMOBILIZED ANTIBODIES	0	0	0
	6103	458	0	POLYMERS	0	0	0
		4418	0	TOTAL	0	23	0
		24348	13870	TOTAL - ALL PROGRAMS	6695	5715	13870
		143	-50	LRPD	-25	-16	-50
		290	850	CPI	392	115	850
		140	280	HRI	140	233	280
		24921	14950	TOTAL ALL EXPENDITURES	7202	6047	14950

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CETUS

KODAK  
EK/CETUS - R & D PROGRAMS  
CY 88 - thru 6 periods

**KODAK EXPENDITURES**

PROG NO	PRIORITY	KODAK	YEARS	1988 EST	PROGRAM TOTAL	PROGRAM DESCRIPTION	1988 YTD		1988 YE FCST	AOP
							FCST	ACT		
*** CURRENT PRODUCTS ***										
6515	1448		7	1455	HCG		3	28	7	
6426	68		220	288	HERPES		102	97	220	
6427	706		221	927	STREP		102	124	221	
6428	24		260	284	GONORRHEA		120	9	260	
6429	756		211	967	CHLAMYDIA		97	215	211	
6519	10		425	435	RAPID HIV ANTIBODY		196	136	425	
					TOTAL		620	609	1344	
*** FUTURE PRODUCTS ***										
				0	CANCER		0	0		
2090	0		200	200	HPV (CERVICAL CANCER)		92	0	200	
				0	DIABETES (IDDM)		0	0		
				0	HLA TYPING		0	0		
2087	0		500	500	HIV (AIDS)/DNA		231	133	500	
2089	0		447	447	FORENSICS		206	114	447	
5720	0		725	725	PCR INSTRUMENT		335	241	725	
				0	TOTAL		864	488	1872	
*** CORE DEVELOPMENT ***										
6119	392		271	663	INFECTIOUS DISEASES (OTHER)		125	1	271	
6205	1368		874	2242	DNA PROBES/KODAK		403	608	874	
6206	1991		331	2322	DISPOSABLES (SURECELL KITS)		153	158	331	
6208	321		224	545	EVALUATION (INT & EXT TESTING)		103	76	224	
6209	837		734	1571	REAGENT DEVELOPMENT		339	512	734	
6210-4	502		500	1002	REAGENT INTEGRATION		231	0	500	
	248		100	348	MANUFACTURABILITY		46	0	100	
				5659	TOTAL		1400	1355	3034	
*** MISC/LIMITED ACTIVITY ***										
				0	BREAST CANCER		0	0	0	
				0	ONCOGENE RAS		0	0	0	
				0	SHIGELLA/SALMONELLA		0	0	0	
6508	167		0	167	LH		0	1	0	
6207	715		0	715	INSTRUMENTATION (FOR TEST SYSTEM EVAL)		0	1	0	
4447	435		0	435	ANALYTICAL CHARACTERIZATION		0	0	0	
5413	128		0	128	IMMobilized ANTIBODIES		0	0	0	
6105	458		0	458	POLYMERS		0	0	0	
				1903	TOTAL		0	2	0	
				10574	TOTAL - ALL PROGRAMS		2885	2454	6250	
					0 LRPD					
				290	CPI		392	115	850	
				0 HRI						
				10864	TOTAL ALL EXPENDITURES		3277	2569	7100	

CETUS  
EK/CETUS - R & D PROGRAMS  
CY 88 - thru June

## C E T U S   E X P E N D I T U R E S

PROG NO CETUS	PRIOR YEARS	1988 EST	PROGRAM TOTAL	PROGRAM DESCRIPTION	---1988 YTD---		1988 YE FCST ADP
					FCST	ACT	
*** CURRENT PRODUCTS ***							
ID010	365	0	365	HCG	0	71	0
ID110	1086	282	1368	HERPES	141	97	282
ID111	914	0	914	STREP	0	2	0
ID119	1099	940	2039	GONORRHEA	470	408	940
ID116	687	235	922	CHLAMYDIA	118	80	235
ID112	113	752	865	RAPID HIV ANTIBODY	376	183	752
	4264	2209	6473	TOTAL	1105	841	2209
*** FUTURE PRODUCTS ***							
MAC16	380	752	1132	CANCER	376	204	752
MAC17	1	752	753	HPV (CERVICAL CANCER)	376	192	752
MAH16	602	564	1166	DIABETES (IDDM)	282	287	564
MAH19	2960	564	3524	HLA TYPING	282	573	564
MAI14	2901	1857	4758	HIV (AIDS)/DNA	929	1014	1857
MAH13	0	922	922	FORENSICS	461	129	922
	0	0	0	PCR INSTRUMENT	0	0	0
	6844	5411	12255	TOTAL	2706	2399	5411
*** CORE DEVELOPMENT ***							
MAI12/DNA	0	0	0	INFECTIOUS DISEASES (OTHER)	0	0	0
	151	0	151	DNA PROBES/KODAK	0	0	0
	0	0	0	DISPOSABLES (SURECELL KITS)	0	0	0
	0	0	0	EVALUATION (INT & EXT TESTING)	0	0	0
	0	0	0	REAGENT DEVELOPMENT	0	0	0
	0	0	0	REAGENT INTEGRATION	0	0	0
	0	0	0	MANUFACTURABILITY	0	0	0
	151	0	151	TOTAL	0	0	0
*** MISC/LIMITED ACTIVITY ***							
IDC10	1874	0	1874	BREAST CANCER	0	18	0
IDC16	129	0	129	ONCOGENE RAS	0	0	0
MAI10/11	311	0	311	SHIGELLA/SALMONELLA	0	0	0
ID011	201	0	201	LH	0	3	0
	0	0	0	INSTRUMENTATION (FOR TEST SYSTEM EVAL)	0	0	0
	0	0	0	ANALYTICAL CHARACTERIZATION	0	0	0
	0	0	0	IMMOBILIZED ANTIBODIES	0	0	0
	0	0	0	POLYMERS	0	0	0
	2515	0	2515	TOTAL	0	21	0
	13774	7620	21394	TOTAL - ALL PROGRAMS	3810	3261	7620
	143	-50	93	LPPD	-25	-16	-50
		0	0	CPI	0	0	0
	140	280	420	HRI	140	233	280
	14057	7830	21907	TOTAL ALL EXPENDITURES	3925	3478	7850

-6-

013927  
CETUS

Case 3:05-cv-04158-MHP Document 95-49 Filed 10/27/2006 Page 21 of 31

Name	Code	Hourly Rate	Min/Max	Overhead	Rate	Actual	Entered	Entered Date	Entered By	Entered Time
Barker, C.										
Bergman, J.										
Bever, E.										
Brown,										
Burke, S.										
Chandler, A.										
Costello, M.										
Cunningham, J.										
Davis, G.										
Eckert,										
Fenton, S.										
Fischer, J.										
Fitzgerald, C.										
Foley,										
Gilligan, S.										
Goodwin, E.										
Hanson, C. D.										
Hargan, A.										
Hicks,										
Hicks, P.										
Hoffman, C. A.										
Holland, E.										
Horan, C.										
Howell, C.										
Keeler, C.										
Kirkpatrick, J.										
Lettow, C.										
McGinnis, K.										
Milner, C.										
Monroe, C.										
Nichols, C.										
O'Farrell, C.										
Patterson, C.										
Reed, C.										
Scott, C.										
Schulz, C. W.										
Sherman, C.										
Sims, C.										
Stevens, C.										
Taylor, C.										
Total hours:	240	237	8	453	210	8,144	272	8	91	43
Other hours:	12	12	0	0	0	0	20,44	0	0	0
Total hours:	240	237	8	453	210	8,144	272	8	91	43
Current Product:	1444						Future Prod:	992		
							Core Assessment:	2255		
							Future:	4550		

## CETUS RESEARCH PERSONNEL - Active Hours for Oct. 1998

Dept Name	ACG : Herp : Stress : SC : Tumor : HIV : Cancer	MPV : Diabetes : MSA : A/H : Stroke : Breast	UVA : Uterus : Ovarian : Lung : Colon : Liver : Skin : Cancer	Un
Salaries	22 : 22 : 20 : 20 : 20 : 22 : 20 : 1 : 1 : 22 : 22 : 1			148
ABZ Beck, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			142
Black, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
BST James, K.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Boag, C.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			151
Bright, J.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			134
Brown, E.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Campbell, K.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
Carson, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Chen, C.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Christensen, C.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			12
Coyle, J.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			132
Deacon, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			156
Dickinson, R.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			149
Fitzgerald, J.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Gilligan, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Hall, D.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
Han, T.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
Hanson, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Hawkins, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Henderson, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Hicks, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Holmes, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Hughes, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Jones, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Kellogg, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			152
Lam, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
Leib, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
Long, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			146
Mackay, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
McKee, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
McLellan, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Miller, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Monk, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Nease, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Reed, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Rosen, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Shaw, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Tan, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Trigilio, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			144
Zhang, S.	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1			14
Concurrent Total	9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9			146
Future Projected Total	9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9 : 9			147
Total Hours in Day + 1d				5372

44

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RMS 71116

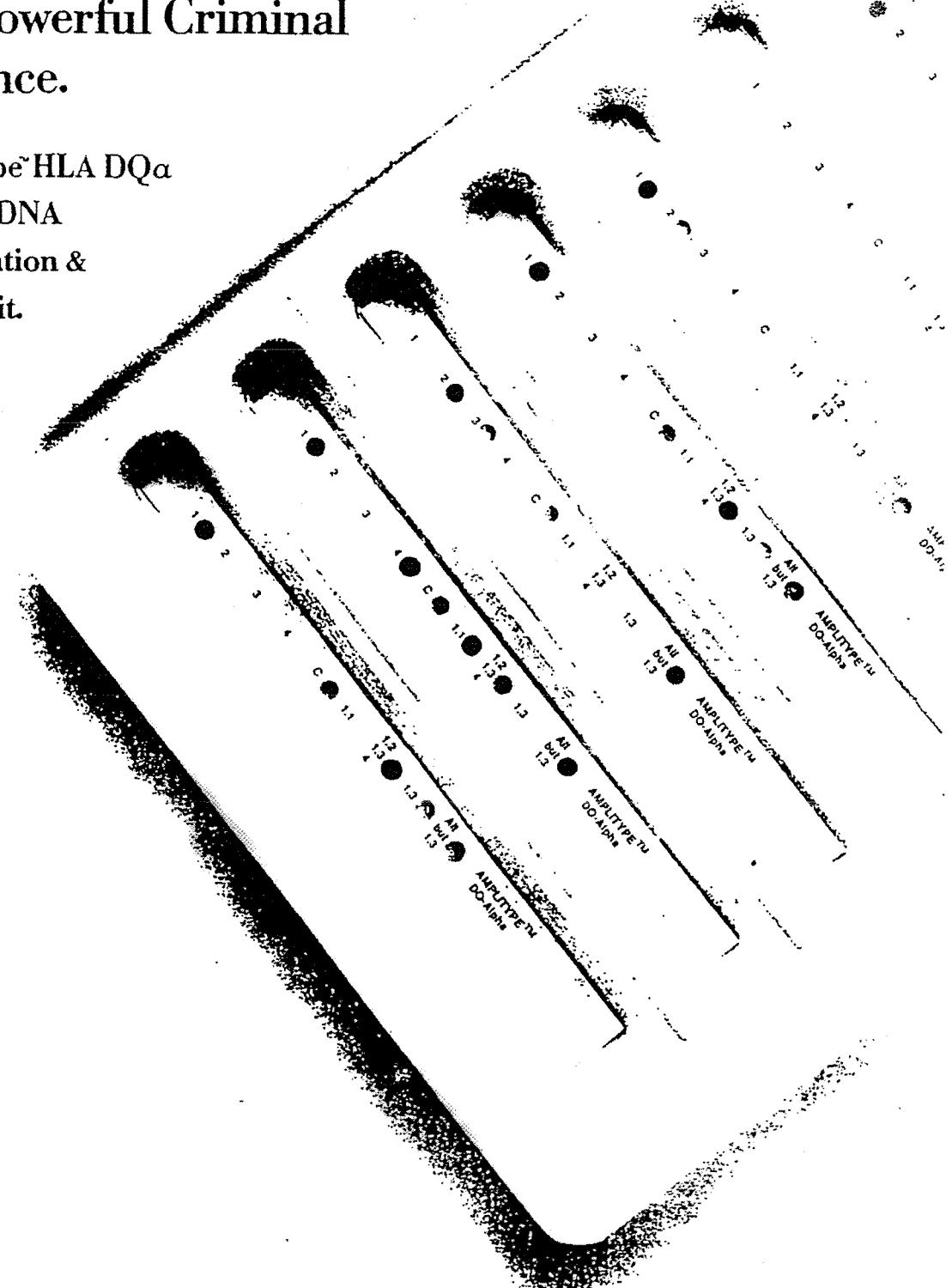
EXHIBIT G

ATTORNEY'S EYES ONLY  
RESTRICTED

RMS 71117

# Turn Biological Material Into Powerful Criminal Evidence.

AmpliT<sup>TM</sup>e HLA DQ $\alpha$   
Forensic DNA  
Amplification &  
Typing Kit.



cetus.

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RMS 71118

## The AmpliT<sup>®</sup>e HLA DQ $\alpha$ Kit: Revolutionizing DNA typing.

### **The practical tool for the forensic laboratory.**

Increasing caseloads and the growing recognition of DNA typing as an important criminal investigation tool are challenging the forensic laboratory. Time-consuming, labor-intensive procedures requiring specialized skills limit the number of specimens that can be processed. Based on the powerful GeneAmp PCR technology, the AmpliT<sup>®</sup>e HLA DQ $\alpha$  Forensic DNA Amplification and Typing Kit provides a rapid, automated procedure requiring only minimal amounts of DNA and allowing typing of DNA from degraded material.

### **Convenient, one-step amplification.**

Once the DNA has been extracted from the biological specimen, amplification of the DQ $\alpha$  region begins in only a few minutes. The PCR reaction mix provided in the AmpliT<sup>®</sup>e Kit has been preformulated to include the enzyme AmpliTaq<sup>®</sup> DNA polymerase, nucleotides and DQ $\alpha$  primers. Just add the extracted DNA sample to the DNA amplification reagents and begin amplification in the DNA Thermal Cycler.

### **Dot blot format:**

#### **Simple to use, easy to read.**

The AmpliT<sup>®</sup>e HLA DQ $\alpha$  Kit uses the dot blot format familiar to immunologists and molecular biologists. In this format, the DNA probes that complement the six alleles of the DQ $\alpha$  gene are provided as immobilized dots on a DNA probe strip.

When the amplified DNA sample is added to the DNA probe strip, the alleles present in the sample hybridize to the complementary probes on the strip.

Following a subsequent color development step, the hybridized DNA product is visualized as a blue dot. The DQ $\alpha$  type is identified by reading the pattern of dots on the DNA probe strip.

### **A cost-effective screening tool.**

The DQ $\alpha$  system has been used in forensic casework since 1986 and has proven useful in excluding or including suspects in criminal cases. By using GeneAmp PCR technology and the dot blot format, the AmpliT<sup>®</sup>e Kit offers a simple procedure, rapid results and significantly lower costs. This makes DQ $\alpha$  typing cost-effective as a screening tool to quickly determine if further analysis is necessary. Since amplification is automated and typing is simple and rapid, more cases can be processed. Once the DNA has been extracted from the sample, results are available in less than a day.

### **Nonisotopic, colorimetric detection: Fast and safe.**

Since hybridization is visualized in a colorimetric reaction, radioisotopes are not used. This eliminates the expense and hazards of handling, storing and disposing of radioactive material. Special licenses are not required to perform the procedure.

Significant time and cost savings also result. There is no need to perform autoradiography. The results are immediately visible.

## GeneAmp Polymerase Chain Reaction: A new level of sensitivity.

### Amplify target DNA sequences automatically.

The GeneAmp polymerase chain reaction is an *in vitro* method for the enzymatic synthesis of specific DNA sequences. Two specific oligonucleotide primers that hybridize to opposite strands and flank the target DNA region of interest are used. The repetitive series of cycles involves three steps. First, the DNA strands to be copied (the template) are denatured by heat. Next, a cooling step anneals the primers. In the third step, the annealed primers are extended by the enzyme AmpliTaq DNA polymerase, producing a copy of the target DNA region. The cyclic repetition of these steps results in the exponential accumulation of the approximately 240 base pair sequence of the HLA DQ $\alpha$  region.

All this is performed automatically in the PE Cetus DNA Thermal Cycler that controls the temperature and cycling conditions for the amplification process.



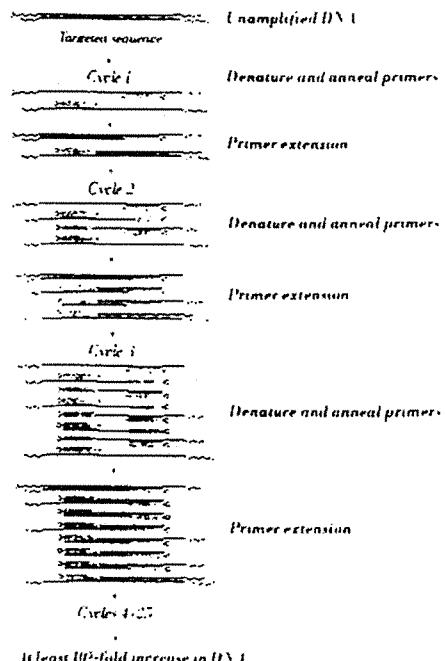
*In the first and most important step of genetic analysis, DNA is extracted from biological specimens such as a hair, a semen stain, a blood stain or other material.*

### From picograms to micrograms within hours.

Because the primer extension products synthesized in one PCR cycle serve as a template in the next, the number of target DNA copies approximately doubles after every cycle. Thus, 20 PCR cycles can yield approximately a millionfold ( $2^{20}$ ) amplification.

Within hours, millions of copies of just the DQ $\alpha$  region in the sample are generated and ready for analysis. With the sensitivity offered by PCR, even samples containing less than a nanogram of human DNA can be analyzed.

### Polymerase chain reaction.



*The extracted DNA is added to the PCR reaction mix, which is provided with the AmpliTaq HLA DQ $\alpha$  Kit. The samples are amplified in the PE Cetus DNA Thermal Cycler.*



*The amplified DNA is added to the DNA probe strip on which the DQ $\beta$ :DQ $\alpha$  probes have been immobilized. No preparation of the strips is necessary.*

## HLA DQ $\alpha$ typing: The logical starting point in forensic casework.

### Fully characterized for forensic testing.

By determining the genetic type of the donor of the biological evidence sample, DNA typing can be a powerful tool for including or excluding suspects.

The AmpliType HLA DQ $\alpha$  Forensic DNA Amplification and Typing Kit detects genetic variation at the highly polymorphic DQ $\alpha$  locus, one of the Human Leukocyte Antigen Class II (HLA-D) genes located on chromosome 6. These genes have been studied extensively. The HLA-D genes are organized into three regions: HLA-DR, -DQ and -DP, each of which encodes an alpha and beta glycoprotein. The DNA sequence of the HLA DQ $\alpha$  alleles is known.<sup>1</sup>

### Excellent discriminating power.

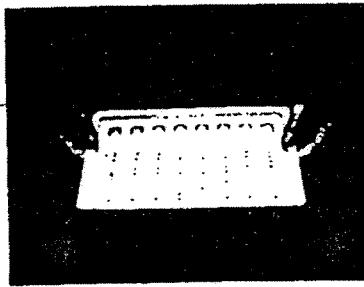
The six most common HLA DQ $\alpha$  alleles (A1.1, A1.2, A1.3, A2, A3 and A4) define 21 genotypes with frequencies ranging from less than 0.005 to 0.15. Based on allele and genotype frequency data available for certain Caucasian, Black, Hispanic and Asian populations, the discriminating power of the DQ $\alpha$  typing system is approximately 93%.<sup>2,3</sup>

1. Saito, RK; Walsh, PS; Levenson, CH; Erlich, HA: "Genetic Analysis of Ameloid DNA with Immobilized Sequence-Specific Oligonucleotide Probes," *Proc. Natl. Acad. Sci. USA* 86:6221-6224 (1989).
2. Givolsten, U; Erlich, HA: "Generation of Single-Stranded DNA by the Polymerase Chain Reaction and Its Application to Direct Sequencing of the HLA-DQ $\alpha$  Locus," *Proc. Natl. Acad. Sci. USA* 83: 7632-7636 (1986).
3. Heimith, R et al.: "HLA DQ $\alpha$  Allele and Genotype Frequencies in Various Human Populations—Determined by Using Enzymatic Amplification and Oligonucleotide Probes," Unpublished manuscript.
4. von Berndsen, J.H.; Blake, ET; Heimith, R; Tensappon, GF; Erlich, HA: "Amplifications of PCR to the Analysis of Biological Evidence," in *PCR Technology*, New York Press, 1993, Chapter 17, p. 212.

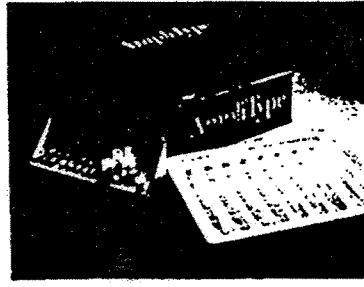
### Get started today with the AmpliType Kit.

The AmpliType HLA DQ $\alpha$  Forensic DNA Amplification and Typing Kit includes the PCR mix for DNA amplification, DNA probe strips and other reagents and supplies needed for amplifying and typing the HLA DQ $\alpha$  region. Simple, complete instructions are included for your convenience.

Most importantly, the AmpliType HLA DQ $\alpha$  Kit comes with support from the Cetus Forensics Group. Technical assistance is available through our toll-free number (1-800-548-4545). The customer support program also includes training workshops. Contact Cetus today for more information on the AmpliType Kit. To place an order, call PE XPRESS at 1-800-762-4002.



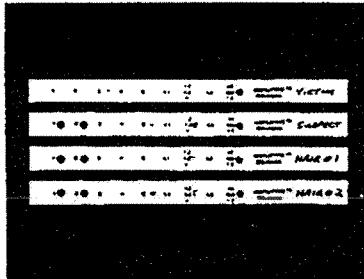
*The particular alleles in the sample hybridize to the complementary probes on the DNA probe strip. Following a subsequent color development step, the hybridized product is visualized.*



*The AmpliType HLA DQ $\alpha$  Forensic DNA Amplification and Typing Kit includes all the reagents required for DQ $\alpha$  analysis of DNA samples.*

## HLA DQ $\alpha$ typing: At work in the forensic laboratory.

### Casework example 1.



In this homicide case, foreign hairs were recovered from the victim's body. DNA was extracted and analyzed using the AmpliT<sup>TM</sup> HLA DQ $\alpha$  Forensic DNA Amplification and Typing Kit to determine whether or not these hairs could have originated from the suspect.

#### Results of DNA analysis.

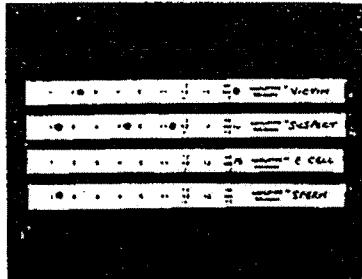
Sample Type	Description	DQ $\alpha$ Type
Blood	Victim (reference blood)	3.3
Blood	Suspect (reference blood)	1.3.2
Hair	Hair #1	1.3.2
Hair	Hair #2	1.3.2

#### Inference.

The DQ $\alpha$  type of both hairs was determined to be 1.3.2. This type occurs in approximately 1.7% of the general population.

The suspect was also determined to be DQ $\alpha$  type 1.3.2 and therefore could not be eliminated as a source of these hairs.

### Casework example 2.



Vaginal swabs containing human semen from the victim of an alleged sexual assault were submitted to the crime laboratory. DNA analysis using the AmpliT<sup>TM</sup> HLA DQ $\alpha$  Forensic DNA Amplification and Typing Kit was conducted to determine whether or not the suspect could be eliminated as a potential sperm donor.

#### Results of DNA analysis.

Sample Type	Description	DQ $\alpha$ Type
Blood	Victim (reference blood)	2.3
Blood	Suspect (reference blood)	1.1.4
Vaginal swab	Epithelial cell DNA	2.3
Vaginal swab	Sperm DNA	1.2.1.3

#### Inference.

The sperm DNA from the vaginal swab was adequately separated from the female's epithelial cell DNA. The victim was determined to be DQ $\alpha$  type 2.3. The DQ $\alpha$  type of the sperm was determined to be type 1.2.1.3.

The suspect was determined to be DQ $\alpha$  type 1.1.4. Therefore he was eliminated as the sperm donor in this case.

## Ordering information.

Item	Catalog No.
AmpliT <sup>®</sup> HLA DQ $\alpha$ Forensic DNA Amplification & Typing Kit	N808-0002

To order: 1-800-762-4002 (PEXPRESS)  
for Cetus technical support: 1-800-548-4545



CETUS CORPORATION  
Forensics, PCR Division  
1400 Fifty-Third Street  
Emeryville, CA 94608  
(800)548-4545      ATTORNEY'S EYES ONLY  
Fax: (415) 601-1727      RESTRICTED

RMS 71123

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001-SM-01/90

EXHIBIT H

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RMS 71124



RECEIVED DEC 28 1987  
 ROMC INTERIM MEETING  
 12/7/87 at Cetus

*H. Knowles*  
 F/Kodak  
 ROMC

*cc: S. Amulter*

~~*D. Lowder*~~

~~*S. Sorenson*~~

(1) Status Reports

(a) Status of Immunodiagnostic Tests

Paul Schnipelsky outlined the current status and schedules (see Attachment I).

Schedules have been maintained since the October ROMC except for one month slip in GC and HCG and uncertainty regarding the time required for FDA approval of the HIV rapid test.

Issue: How many strains of GC must be detected? What is the prevalence of strains. A list of questions to be asked of experts will be developed by Paul Schnipelsky, John Sninsky, and Bill Gerber.

Issue: In order to facilitate FDA approval of the rapid HIV test, an advisory committee will be established to ensure complete, timely application. This group will be:

Paul Law - EK (Chair)  
 Norbert Norkus - EK  
 Wanda De-Vlaminck - Cetus  
 Nancy Durst - EK  
 Richard Montagna - CPI  
 Bernard Poiesz - Upstate Medical Center, NY

(b) Status of Ektamiser

This is a processor for pods to contain PCR reagents in a prepackaged format. The program at Kodak is many months behind schedule, and the instrument is marginally functional. An evaluation is underway to determine salvage value and future course of action. Bill Gerber will explore possibilities. John Sninsky and Paul Schnipelsky to develop R&D plan and budget. Hanna Fischer and John Knowles to prioritize targets. A meeting with PE was recommended to help reduce redundant activities.

(2) R&D Budget

The budget is attached (Attachments II & III). The HRI expenditures will be moved from SIC to R&D and line items for "contract R&D" will be established for HRI and CPI. Cetus R&D will not exceed \$7600K in 1987. The 1988 estimated budget will be revised slightly, but the total will be unchanged.